

36276

S/069/62/024/002/001/008  
B101/B110

159701  
AUTHORS:

Bartenev, G. M., Zakharenko, N. V.

TITLE:

Viscosity and flow mechanism of mixtures of polymers with fillers

PERIODICAL:

Kolloidnyy zhurnal, v. 24, no. 2, 1962, 121-127

TEXT: The viscosity of ПИБ-20 (PIB-20) polyisobutylene, molecular weight 60,000, and СКБ (SKB) butadiene rubber with active or inactive filler additions (carbon black and chalk, respectively), was measured: (1) mixtures with inactive fillers and fillers active up to 10-15% by volume obey the Einstein equation  $\eta = \eta_0 (1 + \alpha\varphi)$ , where  $\eta_0$  is the viscosity of the pure polymer;  $\varphi$  is the filler content, % by volume, and  $\alpha = 5/2$ . (2) The polymer forms an adsorption layer on the active filler. Thus, particles larger than the original ones are formed and kept together by Van der Waals forces and chemical bonds between active filler and rubber. The activity of a filler toward a polymer is determined by the ratio between chemical and Van der Waals bonds per surface unit of the filler. With active fillers,  $\alpha > 5/2$ ,  $\alpha$  was found to be 10 for PIB and carbon black, and Card 1/3

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## Viscosity and flow mechanism ...

6 for SKB and carbon black. Hence,  $\Delta\alpha = \alpha - 5/2$  is suggested as a characteristic of the filler activity. (3) A viscosity increase after small additions of disperse filler is due to a volume reduction of the polymer phase in the mixture. Viscosity increases with a higher content of active filler, owing to the additional work required to break the three-dimensional structures formed between carbon black and polymer. (4) Addition of a disperse filler to the polymer, increases the viscosity but does not affect its temperature coefficients, i.e. the activation energy of the viscous flow is not affected by the filler content, molecular weight of the polymer, and stress. (5) This independence of activation energy permits the regulation of the viscosity of polymers without a change in temperature dependence. (6) The flow takes place without rupture of filler - polymer bonds. Breaking of immediate particle-to-particle contacts of the filler does not materially contribute to the activation energy of flow. This contribution is below the limits of error. There are 5 figures and 19 references: 7 Soviet and 12 non-Soviet. The four most recent references to English-language publications read as follows: M. L. Studebaker, Indian Rubber World, 127, 215, 1952; E. Guth, Rubber. Chem. and Techn., 23, 635, 1950; V. A. Garten, Nature, 172, 997, 1954;

Card 2/3

Viscosity and flow mechanism ...

S/069/62/C24/002/001/008  
B101/B11C

J. W. Watson, Trans. Inst. Rubber Ind., 32, 204, 1956.

ASSOCIATION: Nauchno-issledovatel'skiy institut rezinovoy promyshlennosti  
(Scientific Research Institute of the Rubber Industry)  
Moskovskiy gorodskoy pedagogicheskiy institut im. V. I.  
Lenina, Problemnaya laboratoriya fiziki polimerov (Moscow  
Municipal Pedagogical Institute imeni V. I. Lenin,  
Laboratory of Polymer Physics Problems)

SUBMITTED: October 21, 1961

Card 3/3

АКТУАЛНОСТ  
РЕЗЮМЕ

2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100

AUTHORS: Zakharenko, N. V. Podryuki, D. L.

51  
57

perature of the initial effective acceleration directly from the initial velocity  
ization curve. Here the temperature is not kept constant during the course of one

so that the total flux kept constant

ZAKHARENKO, N.V.; GAVRILINA, R.A.; FEDYUKIN, D.I.

Graphic method for determining the rigidity of rubber and rubber  
compounds on a Defo-plastometer. Kauch. i rez. 23 no. 9:50-51  
S '64. (MIRA 17:11)

1. Nauchno-issledovatel'skiy institut rezinovykh i latekanykh  
izdeliy.

FEDYUKIN, D.L.; GOLOSKOV, E.I.; RABINOVICH, S.A.; ZAKHARENKO, N.V.

Vulcanization indicator developed by the "Metallist" Plant.  
Kauch. i rez. 24 no.11:51-52 '65. (MIRA 19:1)

1. Leningradskiy zavod "Metallist" i Nauchno-issledovatel'skiy  
institut rezinovykh i lateksnykh izdeliy.

BARTENEV, G.M.; ZAKHARENKO, N.V.

Reply to A.I.Lukomskaia's letter. Koll.zhur. 27 no.3:473 My-Je  
'65. (MIRA 18:12)

69463

S/069/60/022/02/005/024  
D034/D002

5x  
15.9300  
15.9210  
AUTHORS:

Zakharenko, N.V., Tolstukhina, F.S., Bartenev, G.M.

TITLE:

On the Flow of Rubber-like Polymers and of Their  
Mixtures With Carbon Blacks

PERIODICAL:

Kolloidnyy zhurnal, 1960, Vol XXII, Nr 2, pp 168-  
175 (USSR)

ABSTRACT:

The authors report on a study of the flow of polymers and mixtures in a condensed phase in dependence on temperatures and stress. The investigation, which is intended to clarify this process, was carried out on polyisobutylene of the types P-20, P-118 and its carbon black mixtures, on sodium butadiene rubber (SKB) and its mixtures with an active (lamp black) and an inactive filler (chalk), and on various rubber mixtures intended for industrial processing (shoes etc.). The fluidity of the materials was measured in the

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69463

S/069/60/022/02/006/024  
D034/D002

On the Flow of Rubber-like Polymers and of Their Mixtures With  
Carbon Blacks

usual way (determination of strain at constant stress within small velocity gradients). The viscosity was measured with the plastoelastometer designed by D.M. Tolstoy [Ref. 3]. In this device (diagram) the specimen is deformed in a thin layer between two parallel plates. The lower plate remains in a stable position, whereas the upper plate moves due to a load, which acts through a pulley in a horizontal direction. The investigation established the existence of Newtonian flow for polyisobutylene P-20 in the range of low yield values of from  $10^3$ - $10^4$  dynes/cm<sup>2</sup>. Within this range of stresses Newtonian flow is absent in the black-filled mixtures. The rheological curves of complicated disperse rubber-carbon black mixtures are described (within the studied stress limits) by

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On the Flow of Rubber-like Polymers and of Their Mixtures With Carbon Blacks

the Ostwald - de Villiers (Russian transliteration - Ostval'd-deVil'ye) empirical exponential law

$$\xi = \frac{1}{\bar{\eta}} \sigma^n$$

(n - index of deviation from Newtonian flow ( $n \geq 1$ );  
 $\sigma$  - shear stress;  $\eta'$  - material constant coinciding with viscosity  $\eta$  at  $n = 1$ ). The index n increases with active filler content and does not change when an inactive filler is added. The temperature dependence of the viscosity of the studied systems is described by the exponential equation  $\eta = Ae^{E/kT}$  (A - constant; E - magnitude having the dimension of the activation

X

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69163

S/069/60/022/02/006/024  
D034/D002

On the Flow of Rubber-like Polymers and of Their Mixtures With Carbon Blacks

energy). The authors determined the values for the activation energy of viscous flow and calculated the elementary unit of flow. It was found that the temperature coefficients of viscosity and activation energy do not depend on nature and amount of the filler. There are 5 graphs, 1 set of graphs, 1 diagram, 3 tables and 11 references, 6 of which are Soviet, 4 English and 1 German. X

ASSOCIATION: Nauchno-issledovatel'skiy institut rezinovoy promyshlennosti, Moskva (Scientific Research Institute of the Rubber Industry, Moscow)

SUBMITTED: March 12, 1959

Card 4/4

AL'TER, Ye.H.; STEPANOVA, O.S.; ZAKHARENKO, O.I.

New method for obtaining a thyme extract and the quantitative determination of thymol in it [with summary in English]. Apt. delo 8 no.1:  
6-9 Jan '59. (MIRA 12:2)

(THYME)

ZAKHAREVICH, S.F.

Structural characteristics and comparative anatomic description of  
the cotyledon epidermis of certain cabbage species and varieties.  
Trudy po prikl. bot., gen. 1 ser. 32 no.3:193-213 '59.

(MIRA 14:5)

(Cabbage)

(Seeds—Anatomy)

ZAKHAREVICH, S.V. (Leningrad)

Use of matrices in a method for studying the electromagnetic processes  
of the rectifying networks of electric locomotives. Izv. AN SSSR. Otd  
tekh.nauk. Energ. i avtom. no. 2:30-48 Mr-Apr '61. (MIRA 14:4)  
(Electric locomotives) (Mercury-arc rectifiers)

ZAKHARENKO, S.V.; KLEYNER, G.I.; KLIMOV, A.N.

Distribution of penicillin in the organism following the administration of diethylaminoethyl esters of benzylpenicillin and phenoxymethylpenicillin. Antibiotiki, 4 no.2:85-89 Mr-Apr '59 (MIRA 12:7)

1. Kafedra biologicheskoy khimii Voenno-meditsinskoy ordena Lenina akademii imeni S.M. Ki-ova i eksperimental'naya laboratoriya Rzhskogo gosudarstvennogo zavoda meditsinskikh preparatov.

(PENICILLIN, determ.

penicillin G & phenoxymethyl penicillin, distribution after intermusc. admin. in guinea pigs (1ms))

ZAKHARENKO, S.V.; MILEVSKIY, Ye.I.; LAVRENT'YEV, N.I.

Effect of polysaccharides of *Bacillus mucilaginosus* on bacteriophage activity. Mikrobiologiya 31 no.6:1007-1010 N-D '62. (MIRA 16:3)

1. Voenno-meditsinskaya ordena Lenina akademiya imeni S.M. Kirova, Leningrad. (POLYSACCHARIDES) (BACTERIOPHAGE)

ZAKHARENKO, S.V.; LAVRENT'YEV, N.I.; MILEVSKIY, Ye.I.

Effect of bacterial cell substances on the biological activity  
of the bacteriophage. Mikrobiologiya 31 no.4:623-627 31-48 '62.  
(MIRA 18:3)

1. Voenno-meditsinskaya ordena Lenina akademiya imeni Kirova,  
Leningrad.

ZAKHARENKO, S.V.

SAMOKHVALOV, V.I., mayor meditsinskoy sluzhby; RUSHKOV, S.V.; VASIL'YEV,  
B.M.; ZAKHARENKO, S.V.; SUKOVATYKH, L.S., starshiy leytenant  
meditsinskoy sluzhby

Using bicillin in surgical practice. Voen.-med.zhur. no.10;40-44  
O '56. (MIRA 10:3)

(PENICILLIN) (SURGERY)

ZAKHARENKO, S.V.  
VLADIMIROV, G.Ye.; KLIMOV, A.N.; ZAKHARENKO, S.V. (Leningrad)

Bicillin, a long-acting penicillin preparation. Klin.med. 35 no.12:  
16-22 D '57. (MIRA 11:2)

1. Iz kafedry biologicheskoy khimii Voenno-meditsinskoy ordena  
Lenina akademii imeni S.M.Kirova.  
(PENICILLIN, related cpds.  
benzathine penicillin G. mechanism of action (Rus))

ZAKHARENKO, S.V.; LAVRENT'YEV, N.I.; MILEVSKIY, Ye.I.; PASHININ, P.M.

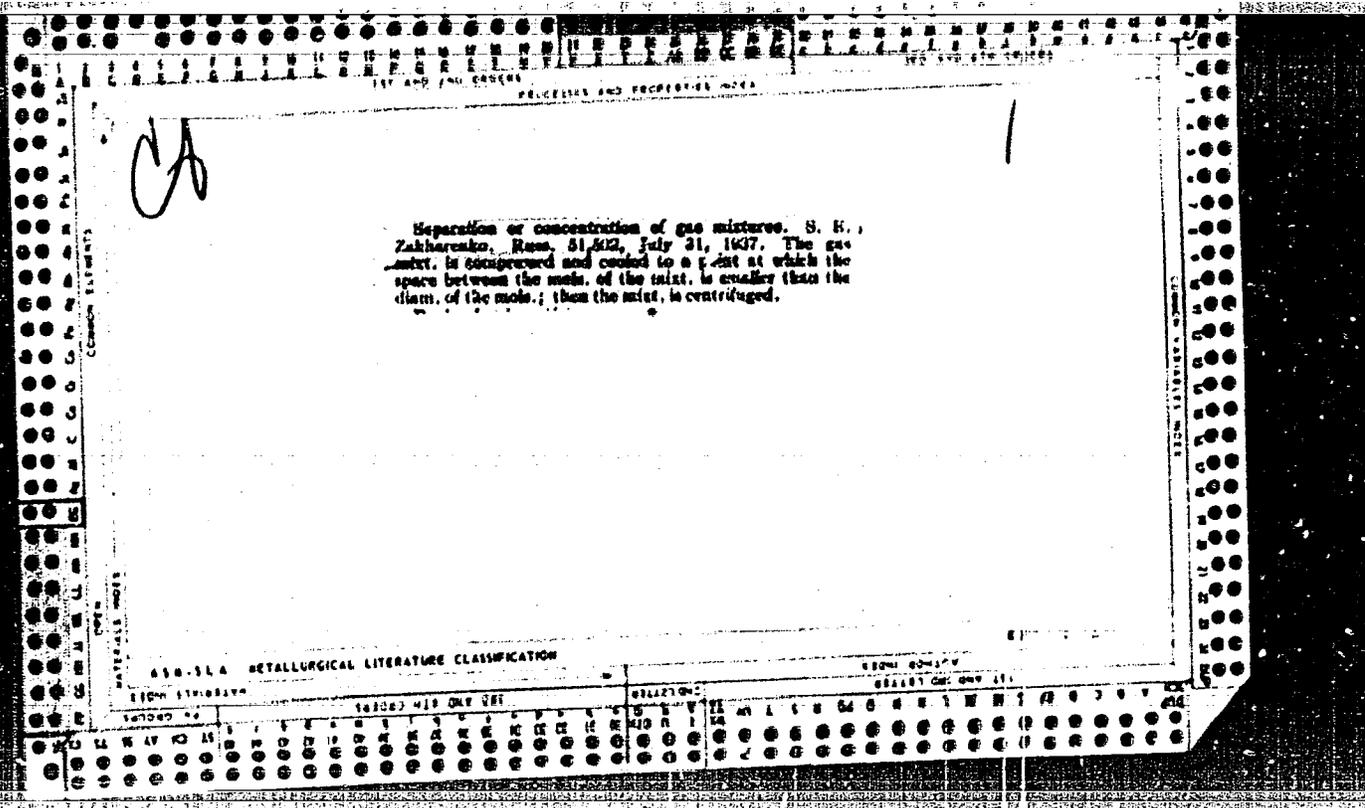
Study of the effect of chloramphenicol on bacteriophage.  
Antibiotiki 7 no.4:309-311 Ap '62. (MIRA 15:3)

1. Kafedra mikrobiologii i biokhimii Voenno-meditsinskoy  
ordena Lenina akademii imeni S.M. Kirova.  
(CHLOROMYCETIN) (BACTERIOPHAGE)

MILEVSKIY, Ye.I., mayor meditsinskoy sluzhby, kand.med.nauk; LAVRENT'YEV,  
N.I., podpolkovnik meditsinskoy sluzhby; ZAKHARENKO, S.V.

Conditions for the preservation of bacteriophage. Voen.-med. zhur.  
no.8:77 Ag '61. (MIRA 15:2)

(BACTERIOPHAGE)



ZAKHARENKO, S. YE., ENG.

Heating from Central Stations

Accelerated construction of a heating main. Elek. sta. 23 No. 5, 1952

Monthly List of Russian Accessions, Library of Congress, October 1952, UNCLASSIFIED.

ZAKHARENKO, S. Ye.

"Rating Radial-Piston Compressors"

Tr. Leningr. Politekhniceskogo In-ta, No 2, 1954, 90-104

The existing method for rating radial-piston compressors is only an approximation because of the impossibility of an accurate determination of the output coefficient. The author developed a general method for rating radial-piston compressors. The equations derived permit the analysis of the effects of all factors pertaining to the capacity, power, and coefficients characterizing the work of the compressor. The equations are useful not only for rating new radial-piston compressors and gas blowers, but also for rating the quality and analyzing the work of existing machines. The equations permit one to compute and construct all characteristics of a machine before its constructing and testing. (RZhKhim, No 3, 1955)

SO: Sun No 845, 7 Mar 56

ZAKHARENKO, S.Ye., professor

Calculation of clearances in rotary displacement compressors. Trudy  
IPI no.2:105-108 '54. (MIRA 8:8)  
(Air compressors)

Zakharenko, S. Ye

LYAMIN, A.A., inzh.; ZAKHARENKO, S.Ye., inzh.; SHAL'NOV, A.P., kand.  
tekh.nauk; YUSHKIN, A.R., inzh.; FILIMONOV, V.A., inzh.  
OSTAL'TSEV, P.P.

The technical and economic expediency of the simultaneous  
installation of underground equipment by engineering teams.  
Ger.khoz.Mosk. 31 no.11:30-35 N '57. (MIRA 10:12)

1.Mosenergoprojekt (for Lyamin). 2.Mosteploset'stroy (for Zakhar-  
chenko). 3.Mospodzemproyekt (for Shal'nov, Yushkin, Filimonov,  
Ostal'tsev)

(Municipal engineering)

ZAFHARENKO, Semen Yevseyevich, inzh.; GARTUNG, S.V., red.; VORONIN, K.P.,  
tekhn.red.

[Manual of heating systems; construction and assembly] Spravochnik  
po teploym setiam; stroitel'stvo i montazh. Izd. 2-oe, perer.  
Moskva, Gos.energ.izd-vo, 1958. 519 p. (MIRA 11:5)  
(Heating)

ZAKHARCHUK, L. I.

"Hypoxia Test in the Diagnosis of Coronary Insufficiency." Card  
Med Sci, L'vov State Medical Inst, L'vov, 1954. (RZhBiol, No 6, Mar 55)

SO: Sum. No. 670, 29 Sep 55--Survey of Scientific and Technical  
Dissertations Defended at USSR Higher Educational Institutions (15)

ZAKHARCHUK, L.I., kandidat meditsinskikh nauk

Hypoxia test in diagnosing coronary insufficiency. Vrach. delo  
no.1:95 Ja '57 (MLBA 10:4)

1. Kafedra gospiatal'noy terapii (sav.-prof. T.T. Glukhen'kiy)  
L'vovskogo meditsinskogo instituta.  
(HEART FAILURE) (ANOXEMIA)

**"APPROVED FOR RELEASE: 03/15/2001**

**CIA-RDP86-00513R001963510016-9**

**APPROVED FOR RELEASE: 03/15/2001**

**CIA-RDP86-00513R001963510016-9"**

ZAKHARENKO, S.V.

KLIMOV, A.N.; SUKHOMLINOV, F.K.; ZAKHARENKO, S.V.; SNEGIREV, Ye.A.; AGEYEV, A.K.

Oxybicillin, a new long-acting penicillin preparation. Antibiotiki  
5 no.1:14-20 Ja-F '60. (MIRA 13:7)

1. Kafedry biokhimii, khimii, farmakologii i patologicheskoy anatomii  
Voyenno-meditsinskoy ordena Lenina akademii im. S.M.Kirova.  
(PENICILLIN)

ZAKHARENKO, V.A.

Hydrogenation of ethyl benzene and tetralin in the presence  
of an industrial tungsten-nickel-sulfide catalyst. Trudy IOI  
9:154-157 '59. (MIRA 13:1)  
(Hydrocarbons) (Hydrogenation)

ZAKHARENKO, V.A.; LOZOVYI, A.V.

Comparative activity of technical catalysts of the vapor-  
phase hydrogenation of fuel. Part 2. Trudy IGI 9:96-106  
'59. (MIRA 13:1)  
(Hydrogenation) (Catalysts)

ZAKHARENKO, V.A.

Transformations of hydrocarbons during destructive hydrogenation  
in the presence of  $WS_2$  catalysts with aluminosilicate.

Trudy IGI 9:107-121 '59.

(MIRA 13:1)

(Hydrocarbons) (Hydrogenation)

ZAKHARENKO, Semen Yefremovich, prof.; ANISIMOV, Sergey Aleksandrovich, dots.; DMITREVSKIY, Vladimir Alekseyevich, dots.; KARPOV, Grigoriy Vasil'yevich, dots.; FOTIN, Boris Stepanovich, dots.; RUMYANTSEV, V.A., kand. tekhn. nauk, retsenzent; ROZENFEL'D, L.M., doktor, tekhn. nauk, retsenzent; LIFSHITS, S.P., kand. tekhn. nauk, red.; VASIL'YEVA, V.P., red. izd-va; DUDUSOVA, G.A., red. izd-va; SIMONOVSKIY, N.Z., red. izd-va; SHCHETININA, L.V., tekhn. red.

[Piston compressors] Porshnevye kompressory. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1961. 454 p. (MIRA 14:8)  
(Compressors)

L 2312-66 EPA/LNT(11)/LNT(12)/TNP(11)/PWA(11)/TLD/PC(12) (1)WA 1

ACCESSION NR: AT5023180

UR/2563/65/000/249/0069/0974

AUTHOR: Zakharenko, S. Ye.

41  
52  
57

TITLE: Gas consumption during the passage through narrow slits at critical efflux velocities

SOURCE: Leningrad. Politeknicheskyy Institut. Trudy, no. 249, 1965. Teplovyye dvigateli i transportnyye mashiny (Heat engines and transport machines). (9-74

TOPIC TAGS: gas flow, internal flow, flow analysis

ABSTRACT: In modern piston and rotary compressors and vacuum pumps gas often flows through slits at critical velocities (e.g. last stages of piston compressors may be without

L 2319-66

ACCESSION NR: AT5023180

31

mathematical computation techniques - Orig. art. has 32 formulas and 2 figures.

Author: M. I. Kallina (Leningrad  
Institute)

OTHER ME

REF ID: A66002

OTHER 000

ZAKHARENKO, S. Ye.

Gas flow narrow slits at critical escape velocities. Trudy LPI  
(MIRA 18:9)

no. 249:69-74 '65.

ZAKHARENKO, S.Ye.; GRINPRESS, B.L.; AMISOV, P.Ye.

Special features of the glands of screw compressors. Trudy LPI  
no.221:139-147 '62. (MIRA 15:9)  
(Compressors)

ZAKHARENKO, S.Ye., inzh.

Selecting the industrial structural elements for the underground  
laying of district heating thermal networks. Energ.stroi. no.25:  
41-44 '61. (MIRA 15:4)

1. Upravleniye "Mosteploset'stroy".  
(Heating from central stations--Equipment and supplies)

PHASE I BOOK EXPLOITATION

SOV/5790

Zakharenko, Semen Yefremovich, Professor, Sergey Aleksandrovich Anisimov,  
Vladimir Alekseyevich Dmitrevskiy, Grigoriy Vasil' yevich Karpov, and  
Boris Stepanovich Fotin

Porshnevyye kompressory (Piston Compressors) Moscow, Mashgiz, 1961.  
454 p. Errata slip inserted. 11,000 copies printed.

Reviewers: V. A. Rumyantsev, Candidate of Technical Sciences, and  
L. M. Rozenfel' d, Doctor of Technical Sciences, Professor; Ed. :  
S. P. Lifshits, Candidate of Technical Sciences; Eds. of Publishing House:  
V. P. Vasil' yeva, G. A. Dudusova, and N. Z. Simonovskiy; Tech. Ed. :  
L. B. Shchetinina; Managing Ed. for Literature on the Design and Operation  
of Machines (Leningrad Department, Mashgiz): F. I. Fetisov, Engineer.

PURPOSE: This textbook is intended for use in engineering schools of higher  
education.

Card: ~~1~~

Piston Compressors

SOV/5790

**COVERAGE:** The book follows the program of the course "Piston Compressors" which is taught at the Leningrad Polytechnic Institute imeni M. I. Kalinin. The following are discussed: thermodynamic fundamentals of the compression of gases; a modern theory of reciprocating compressors; methods of the design of reciprocating compressors and principles of their construction; and the design and construction of accessories. Basic information necessary for the operation of compressor installations is also given. The book was written as follows: Professor S. Ye. Zakharenko - Sec. 1 of Ch. I, and Chs. II, III, IV, and VI; Docent S. A. Anisimov - Chs. V and VII; Docent V. A. Dmitrevskiy - Sec. 42 to 46 of Ch. VIII; Docent G. V. Karpev - Sec. 47 and 48 of Ch. VIII, and Sec. 53 of Ch. IX; and Docent B. S. Fotin - Sec. 2, 3, and 4 of Ch. I, Sec. 49 to 52 of Ch. IX, and Chs. X and XI. There are 79 references, all Soviet.

TABLE OF CONTENTS [Abridged]:

Foreword

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3

ZAKHARENKO, S.Ye.; KARPOV, G.V.

Calculation results of motion diagrams for closing devices of piston  
compressor valves. Trudy LPI no.187:80-92 '56. (MIRA 13:6)  
(Compressors)

S/112/59/000/014/016/085  
A052/A001

Translation from: Referativnyy zhurnal, Elektrotehnika, 1959, No. 14, p. 38,  
# 28800

AUTHOR: Zakharenko, S. Ye.

TITLE: New High-Pressure Bellows Differential Manometer 21

PERIODICAL: Nauchno-tekhn. inform. buyl. Lenigr. politekhn. in-t, 1958, No. 3,  
pp. 5-8

TEXT: The device consists of the differential manometer proper and a contactor. Inside the body of the differential manometer there are bellows; the travel of the bottom of the bellows is proportional to the measured differential pressure (provided that the load is not beyond elastic limit). The contactor, which measures the travel of the bottom, consists of a body; a pin screwed into the manometer and insulated electrically from other metal parts; a socket and a coupling box, for the forward motion of the pin, and sealing devices. A full revolution of the coupling box corresponds to 0.5-mm travel of the pin. On the upper part of the box there are scale divisions enabling one to read off

Card 1/2

New High-Pressure Bellows Differential Manometer

S/112/59/000/014/016/085  
A052/A001

fractions of a full revolution. The body of the manometer, bellows, pin, electric lamp, power source and connecting wires form an electric circuit which closes at the moment the pin contacts the bottom of bellows. To measure the pressure drop ( $\Delta P$ ) an equal pressure is set inside and outside the bellows for the zero reading and then the pin of contactor is brought upwards by the revolution of the coupling box, the measured  $\Delta P$  is established and the pin descends until the electric circuit is closed. The difference between the new and zero reading gives the magnitude of the bellows travel by which, using a calibration chart obtained before,  $\Delta P$  is determined.

E. P. D.

Translator's note: This is the full translation of the original Russian abstract.

Card 2/2

S/123/59/000/09/22/036  
A002/AC01

Translation from: Referativnyy zhurnal, Mashinostroyeniye, 1959, No. 9, p. 151,  
# 34006

AUTHOR: Zakharenko, S. Ye.

TITLE: A New Bellows-Type Differential High-Pressure Gage

PERIODICAL: Nauchno-tekhn. inform. byul. Leningr. politekhn. in-t, 1958,  
No. 3, pp. 5-8

TEXT: A description is given of a bellows-type differential pressure gage for measuring small pressure drops in high-pressure flows. The device was developed at the Leningradskiy politekhnicheskii institut (Leningrad Polytechnic Institute) and its precision is adequate for practical purposes. A baffle with an aperture divides the chamber in the housing of the gage into two high-pressure cavities. The sylinder is soldered concentrically to the aperture periphery. An electric contact, connected to a signal lamp circuit, is located opposite the sylinder bottom, which is displaced depending on the pressure changes of the gas fed into the gage cavities. The contact is installed in a device which permits axial adjustments of the contact to be made. The

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S/123/59/000/09/22/036  
A002/A001

A New Bellows Type Differential High-Pressure Gage

magnitudes of these adjustments can be read on the dial of this device having a graduation value of 0.01 mm. Prior to the measurement the chamber of the gage is connected to a medium having identical pressure, and the contact is brought into touch with the bottom of the slyphon, whose position is indicated by the signal lamp. This zero position is fixed on the dial. During the measurement, the slyphon bottom is displaced and is again brought into touch with the contact until the signal light goes on. The magnitude of the pressure drop is determined with the aid of a calibrated curve for the given slyphon from the difference in the readings corresponding to the magnitude of displacement of the slyphon bottom under the effect of the pressure difference. There are 3 figures.

R. N. F.

Translator's note: This is the full translation of the original Russian abstract.

Card 2/2

14(6)

SOV/112-59-1-345

Translation from: Referativnyy zhurnal. Elektrotehnika, 1959, Nr 1, p 47 (USSR)

AUTHOR: Zakharenko, S. Ye.

TITLE: Experience With Mechanized Construction of Heating Networks in Moscow

PERIODICAL: Tr. Nauchno-tekhn. soveshchaniya po proyektir. i str-vu teplovykh setey. M.-L., Gosenergoizdat, 1956, pp 133-140

ABSTRACT: Data on development of a district heating system in Moscow is presented. In 1949, Mosteploset'stroy began using built-up tunnels, and since 1951, all heat mains have been built of concrete or reinforced-concrete wall blocks. Construction has been organized on an assembly-line pattern, by high-speed methods laying up to 12-15 m per day. Information is offered on the mechanization of earth works in streets and on the digging of frozen soil by heating it with steam, hot water, or electric energy. Heat-insulating work is the one least mechanized. Heat line routes cross numerous underground structures, and sometimes run across streets and squares with high-class

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SOV/112-59-1-345

**Experience With Mechanized Construction of Heating Networks in Moscow**

pavements; underground work is done without breaking the pavement. It is necessary that the metal industry manufacture large-size welded pipes 12-15-m long, not 6-m long, which would cut welding and erection work.

M. L. Z.

Card 2/2

ZAKHARENKO, S. Ye.

AUTHOR: Shpeyer, M.G. (Engineer) SOV/96-59-6-19/22  
TITLE: Conference on the Construction of Thermal Systems  
(Soveshchaniye po voprosam stroitel'stva teplovykh setey)  
PERIODICAL: Teploenergetika, 1959, Nr 6, pp 90-91 (USSR)  
ABSTRACT: An All-Union Conference on the construction of thermal systems was held in Moscow on the 11th - 13th March; it was convened by the Moscow Directorate of the Scientific-Technical Society of the Power Industry (District Heating Section). Representatives of the Acad.Sci. USSR, GOSSTROY USSR, GOSPLAN USSR, Councils of National Economy, design, operating, and erection organisations, and educational and research institutes participated in the conference. Thirteen reports were read and a number of communications were made. Ye.Ya. Sokolov read a report on 'The present state and future prospects of district heating'. The reports by Engineer S. Ye. Zakharenko of Mosteploset'stroy and Engineer A.A. Gerbkov (Mospodzemstroy) dealt with the need for a review of methods of laying heating systems. Engineer A.I. Odnopozov (Glavleningradstroy) described the specially difficult conditions of laying heating systems in

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SOV/96-59-6-19/22

Conference on the Construction of Thermal Systems

Leningrad. The report of Cand.Tech.Sci. A.A. Skvortsov of the All-Union Thermal-Technical Institute stressed the need to mechanise the construction of heating systems as far as possible. Engineer A.A. Lyamin of Mosenergoprojekt described the use of ready-made reinforced concrete ducts for the construction of large diameter heat supply pipes. Cand.Tech.Sci. V.P. Vital'yev of ORGRES discussed costs of different methods of making heating systems. Engineer M.G. Shpeyer of Teploelektroprojekt discussed the mechanical strength of different types of heating supply system construction. The Conference noted the need to introduce new types of construction and thermal insulation. The Conference requested various responsible bodies to test a number of new types of construction. Other detailed recommendations were made. There are no figures, no references.

Card 2/2

**AUTHOR:** Zakharonko, V. A. SOV/65..58-8-13/14

**TITLE:** On the Conversion of Hydrocarbons During Destructive Hydrogenation in the Presence of a  $WS_2$ +Aluminosilicate Catalyst. (O prevrashcheniyakh uglevodorodov pri destruktivnoy gidrogenizatsii v prisutstviy katalizatora  $WS_2$  + aliyumosilikat).

**PERIODICAL:** Khimiya i Tekhnologiya Topliv i Masel, 1968, Nr.8. pp. 64 - 70. (USSR).

**ABSTRACT:** The conversion of paraffinic, naphthenic and aromatic hydrocarbons in the presence of a  $WS_2$ +aluminosilicate catalyst was investigated. This catalyst is known to be very active during the cleaving and isomerisation reactions of hydrocarbons (Ref.5). The products of destructive hydrogenation were analysed by rectification and spectroscopy, which made it possible to identify complex mixtures of hydrogenates, and to define more clearly the conversions of hydrocarbons during this process. The experiments were carried out in a continuous laboratory plant at 300 atms pressure and 360° - 400°C. 125 ml of the catalyst was added in small pieces. The following hydrocarbons were tested: iso-octane, cetane, ethylcyclohexane, decahydronaphthalene, ethylbenzene and tetrahydronaphthalene. Properties of all these

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SOV/65-58-8-13/14

On the Conversion of Hydrocarbons During Destructive Hydrogenation  
in the Presence of a 75% Aluminosilicate Catalyst.

compounds are given. Loss of hydrocarbons in the plant, and during rectification, represented 3 - 5%. Hydrogenation of cetane and iso-octane in the presence of the aforementioned catalyst was carried out at 360°C, 300 atms and volume rate of 1.5. The individual composition of the hydrogenation of cetane and iso-octane is given in Table 2. The aluminosilicate catalyst is a very active isomerisation catalyst. The destructive hydrogenation of ethylcyclohexane and Decalin was carried out at 400°C, volume velocity of 1.5 kg/l/hour and 300 atms. Results of these tests are given in Table 3. Cyclopentane, methylcyclopentane, trans-1,2-dimethyl cyclopentane were found in the conversion products of these hydrocarbons. Conditions of the hydrogenation of aromatic hydrocarbons and results of these investigations are discussed (Table 4).

Card 2/3

SOV/65-58-8-13/14

On the Conversion of Hydrocarbons During Destructive Hydrogenation  
in the Presence of a  $WS_2$ -Aluminosilicate Catalyst.

Theoretical explanations of all these conversion processes are given. There are 4 Tables, 8 References: 2 German and six Soviet.

ASSOCIATION: IGI AN SSSR.

1. Hydrocarbons--Hydrogenation
2. Hydrocarbons--Catalysis
3. Aluminum silicates--Catalytic properties

Card 3/3

ZAKHARENKO, V.A.; LOZOVY, A.V.

Transformations of m-cresol, benzyl alcohol, cyclohexanol, and 2-octanol during high temperature hydrogenation. Zhur. prikl. khim. 36 no.4:881-885 Ap '63. (MIFA 16:7)

1. Institut goryuchikh iskopayemykh AN SSSR.  
(Alcohols) (Hydrogenation)

ZAKHARENKO, V.A. (Kuril'sk)

Magnetic beach. Priroda 51 no.6:114 Jo '62.  
(Iturup Island—Magnetite)

(MIRA 15:6)

ZAKHARENKO, V. A.

Thermodynamic correlation between the products of thermal  
catalytic transformations of paraffin hydrocarbons. Trudy  
IGI 17:212-219 '62. (MIRA 15:10)

(Paraffins) (Catalysis)

ZAKHARENKO, V.A.; LOZOVY, A.V.

Conversions of oxygen compounds (anisole, acetophenone, dimethyl phthalate) during the destructive hydrogenation in the presence of an alumina-molybdenum oxide catalyst. *Zhur.prikl.khim.* 34 no.3: 663-670 Mr '61. (MIRA 14:5)

1. Institut goryuchikh iskopayemykh AN SSSR.  
(Anisole) (Acetophenone) (Phthalic acid)

LOZOVY, A.V.; MUSELEVICH, D.L.; RAVIKOVICH, T.M.; SENYAVIN, S.A.; TITOVA, T.A.;  
CHERKASOVA, V.F.; *Prinimali uchastiye:* DEMBOVSKAYA, Ye.A.;  
ZAKHARENKO, V.A.; L'VOVA, L.N.; MARKINA, T.I.

Hydrogenation catalysts on an aluminosilicate base. *Zhur.prikl.khim.*  
34 no.10:2295-2302 0 '61. (MIRA 14:11)  
(Hydrogenation) (Catalysts)

ZAKHARENKO, V. N.

"Insects of Ponds and Temporary Reservoirs in the Northeastern Region of the Left-Bank Ukraine." Cand Biol Sci, Khar'kov State U izeni A. M. Gor'k'iy, Min Higher Education USSR, Khar'kov, 1955. (Kl, no 12, Mar 55)

So: Sum. No 670, 29 Sept 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (15)

ZAKHARENKO, V.B.

Bottom fauna of a minor reservoir on a small river [with summary  
in English]. Zool.zhur. 38 no.1:15-22 Ja '59. (MIRA 13:4)

1. Chair of Zoology, Kharkov Zootechnical Institute.  
(Loseven'ka Reservoir--Berthos)

GORB, T.V. [Horb, T.V.], doktor sel'skokhoz.nauk; TERESHCHENKO, F.K.,  
 kand.biolog.nauk; BOGAYEVSKIY, O.T. [Bohaiivs'kyi, O.T.], kand.  
 veterin.nauk; POTEMKIN, M.D. [Pot'omkin, M.D.], akademik;  
 KNIGA, M.I. [Knyha, M.I.]; POPOV, O.Ya., kand.sel'skokhoz.nauk;  
 KHMELIK, G.G. [Hmelyk, H.H.], kand.sel'skokhoz.nauk; SHRAM, I.P.,  
 kand.sel'skokhoz.nauk [deceased]; KOPII, A.M., kand.sel'skokhoz.  
 nauk; TSELYUPIN, V.K., kand.sel'skokhoz.nauk; BOZHKO, P.Yu., doktor  
 sel'skokhoz.nauk; KROMIN, S.S., kand.sel'skokhoz.nauk; ZEMLIANSKIY,  
 V.M. [Zemlians'kyi, V.M.], kand.sel'skokhoz.nauk; BOISENKO, A.M.  
 [Borysenko, A.M.], kand.biolog.nauk; ZAKHARENKO, V.B., kand.biolog.  
 nauk; SMIRNOV, I.V. [Smaynov, I.V.], kand.biolog.nauk; KHRABUSTOVSKIY,  
 I.F. [Khrabustovs'kyi, I.F.], kand.biolog.nauk; TORSTYANETSKAYA, M.N.  
 [Trostianets'ka, M.N.], assistant; ALESEKO, P.I., inzh.; VASIL'YEV,  
 Vasyil'iev, O.F., kand.tekhn.nauk; BUGAYENKO, I.I. [Buhaienko, I.I.],  
 starshiy prepodavatel'; TRAKHTOMIROVA, O.O., kand.ekonom.nauk;  
 BUTKO, S.D., kand.ekonom.nauk; TELESHIK, K.G. [Taleshyk, K.H.],  
 doktor ekonom.nauk; YAROSHENKO, V.D., kand.ekonom.nauk; LISIY, I.Y.  
 [Lysyi, I.I.], red.; YEROSHENKO, T.G. [Yeroshenko, T.H.], tekhn.red.

[Handbook for zootechnicians] Dovidnyk zootekhnika. 2., dopovnene  
 i pereroblene vyd. Kyiv, Derzh.vyd-vo sil's'kohospodars'koi lit-ry  
 USSR, 1960. 728 p. (HIRA 15:2)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk imeni V.I.  
 Lenina (for Potemkin). 2. Chlen-korrespondent Vsesoyuznoy akademii  
 sel'skokhozyaystvennykh nauk imeni V.I.Lenina (for Kniga).  
 (Stock and stock breeding)

ZAKHARENKO, V. D. Physician

"Early Age Variability of Distal Metaphysis  
of the Hip." Thesis for degree of Cand.  
Medical Sci. Sub 13 Feb 50, Second Moscow  
State Medical Inst imeni I. V. Stalin

Summary 71, 4 Sep 52. Dissertations  
Presented for Degrees in Science and  
Engineering in Mosccw in 1950. From  
Vechernyaya Moskva, Jan-Dec 1950.

SOV-135-58-9-11/20

AUTHORS: Zaburdin, M.K., Zakharenko, V.F., Shestakov, S.N., Engineers,  
and Tret'yakov, F.Ye., Candidate of Technical Sciences

TITLE: Butt Welding of Titanium and its Alloys on Modernized  
MSGA-300" Machines (Stykovaya svarka titana i yego splavov  
na modernizirovannykh mashinakh tipa MSGA-300)

PERIODICAL: Svarochnoye proizvodstvo, 1958, Nr 9, pp 36-39 (USSR)

ABSTRACT: Information is presented on experimental investigations  
carried out by NIAT on butt contact welding of titanium  
ring blanks up to a cross section of 8,000 mm<sup>2</sup>. Commer-  
cially pure "VT-1D" and "VT-6" titanium (chemical composi-  
tions given in table 1) were investigated and it was stated  
that these titanium grades can be welded with or without  
preheating in accordance with technological parameters  
given in tables 3 and 4. Welding in argon is recommended  
and can be performed on modernized machines of the type  
"MSGA-300" or "MSGA-500" used at the "Elektrik" Plant.  
There are 4 tables, 6 micro-photos, 2 graphs and 1 diagram.

1. Titanium--Welding 2. Titanium alloys--Welding 3. Titanium  
alloys--Physical properties 4. Argon--Applications

Card 1/1

BAZYGRAYEV, Aleksandr Matveyevich, inzh.; BRAUN, David Anisimovich, dotsent,  
kand.tekhn.nauk; AYZENBERG, Ya.M., inzh., nauchnyy red.; ZAKHARENKO,  
V.I., red.; GORDSEYEV, P.A., red.; MEDVEDEV, L.Ya., tekhn.red.;  
EL'KINA, E.M., tekhn.red.

[Technology of metals] Tekhnologiya metallov. Moskva, Gos. izd-vo  
lit-ry po stroit., arkhit. i stroit. materialam, 1958. 322 p.  
(Metals) (MIRA 12:2)

ZAKHARENKO, Ya. P.

ZAKHARENKO, Ya.P.; "Studying the effect of nutrition of the buds of hemp and other bast crops on the formation of the ultimate properties of the adult plant". Kiev, 1955. Min Higher Education USSR. Ukrainain Order of Labor Red Banner Agricultural Academy. (Dissertations for the Degree of Candidate of Agricultural Sciences.)

So. Knizhnaya Letonis' No. 49, 3 December 1955. Moscow.

ACCESSION NR: AT4034005

S/0000/63/000/000/0186/0191

AUTHOR: Zubov, V. P.; Zakharenko, Ya. T.; Kabanov, V. A.; Kargin, V. A.

TITLE: Aliphatic nitrile polymerization

SOURCE: Geterotsapnyye vy\*sokomolekulyarnyye soyedineniya (Heterochain macromolecular compounds); sbornik statey. - Moscow, Izd-vo "Nauka," 1963, 186-191

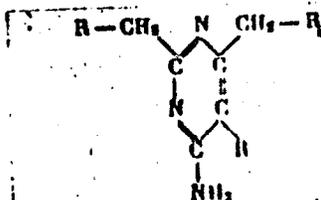
TOPIC TAGS: organic semiconductor, semiconducting polymer, polynitrile, electrical polyacetonitrile, propionitrile

ABSTRACT: Semiconducting polymers have been prepared by the polymerization of propionitrile and capronitrile as complexes with  $ZnCl_2$  and  $ZnCl_2$  or  $TiCl_4$ , respectively. The purpose of this research was to obtain fusible and processable conjugated polymers which would retain the electrical properties of such polynitriles as polyacetonitrile and polybenzoxonitrile. The complexes were prepared by mixing stoichiometric amounts of specially purified monomer and metal chloride in the absence of atmospheric moisture. The solid complex

Card 1/3

ACCESSION NR: AT4034005

was placed in ampuls which were then evacuated to high vacuum, sealed, and heated to 150—300C. Depending upon the reaction conditions, high- and low-molecular-weight products were obtained. On the basis of IR and UV spectra, the following structure was assigned to the low-molecular-weight product, which was assumed to be a trimer:



The trimer is probably an intermediate in the reaction which proceeds through the formation of macromolecules having a linear system of conjugated C-N bonds. It was found that in contrast to polyacetonitrile, the presence in the conjugated backbone of polypropionitrile and polycapronitrile of long aliphatic pendant groups, results in the formation of readily moldable and even fusible products which retain

Card 2/3

ACCESSION NR: AT4034005

sufficiently high electrical conductivity. Determination of electrical conductivity was carried out for pellet samples at different temperatures in air or in vacuum. A pronounced compensation effect was observed, i.e., the preexponential factor rose with the activation energy. The electrical conductivity at 20C ranged from  $8.13 \times 10^{-12}$  to  $1.5 \times 10^{-7} \text{ ohm}^{-1} \text{ cm}^{-1}$ . Hence the combination of relatively high electrical conductivity and the presence of the compensation effect was observed for conjugated polymers containing nitrogen hetero atoms in the backbone with hydrocarbon pendant groups. The cause of this phenomenon requires additional investigation. Orig. art. has: 3 tables, 3 figures, and 3 formulas.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova (Moscow State University)

SUBMITTED: 23Nov62      DATE ACQ: 30Apr64      INCL: 00  
SUB CODE: CH,PH      NO REF SOV: 005      OTHER: 003

Card 3/3

LEVSHINA, O.N.; SAMOKHVALOVA, L.S.; ZAKHARENKOV, G.N., *otv. za vypusk*;  
GORODENSKIY, L.M., *red.*; ZHERNEVSKAYA, I.I., *tekhn. red.*

[Over-all mechanization and automation of production; bibliography]  
Kompleksnaya mekhanizatsiya i avtomatizatsiya proizvodstvennykh  
protsessov; bibliograficheskii obzor literatury. Moskva, Ob-vo po  
rasprostraneniю polit. i nauchn. znaniy RSFSR, 1958. 30 p.  
(MIRA 14:8)

1. Moscow. Tsentral'naya politekhnicheskaya biblioteka, 2. Glavnyye  
bibliografy Tsentral'noy politekhnicheskoy biblioteki, Moskva (for  
Levshina, Samokhvalova). 3. Zaveduyushchiy otdelom nauchno-tekhnicheskoy  
i yestestvenno-nauchnoy propagandy Pravleniya Obshchestva po  
rasprostraneniю politicheskikh i nauchnykh znaniy RSFSR (for Zakharov).  
(Bibliography—Machinery) (Bibliography—Automation)

ZAKHARENKOV, G.H.

Some results of the work of scientific councils. Blul, tekhn.-ekon.  
inform.Gos.nauch.-issl.inst.nauch.i tekhn.inform. 17 no. 7:76-78  
Jl '64. (MIRA 17:10)

ZAKHARENKO, I.S.

Effect of the rate of overgrowth on hydrochemical conditions in  
fish ponds. Trudy Biol. sta. na oz. Narech' no.1:209-221 '58.

(MIRA 12:7)

(Fish ponds)

ZAKHARENKOV, I. S.: Master Biol Sci (diss) -- "Biological factors in the oxygen balance of certain lakes of Belorussia". Minsk, 1959. 14 pp (Beloruss State U im V. I. Lenin, Chair of Plant Physiology), 150 copies (KL, No 11, 1959, 117)

ZAKHARIYAN, L.V.

GEL'BERG, Lev Aronovich, kand.tekhn.nauk; KOLOTILKIN, Boris Michaylovich, kand.tekhn.nauk; ZAKHARENKOV, G.M.; BOSEKOV, V.T.; VOTINOV, A.P.,  
rei.; FURMAN, G.V., tekhn.red.

[Data for lectures on the subject: "Housing construction in the sixth five-year plan and means of reducing its cost"; approved by the office of the Section on Construction, Architecture, and Building Materials] Material k lektsii na temu: "Zhilishchnoe stroitel'stvo v shestoi piatiletke i rezervy snizheniia ego stoimosti"; odobren biuro sektsii po stroitel'stvu, Arkhitekture i stroitel'nym materialam, Moskva, Ob-vo po rasprostraneniu polit. i nauchnykh znanii RSFSR, 1958. 46 p. (MIRA 11:12)

1. Zav. otdelom nauchno-tekhnicheskoy propagandy Pravleniya Obshchestva RSFSR (for Zakharenkov). 2. Referent otdela nauchno-tekhnicheskoy propagandy Pravleniya Obshchestva RSFSR (for Babkov).  
(Housing)

VASIL'YEVSKIY, V.Ye. (Kiyev); ZAKHARENKOV, M.M. (Kiyev)

Observations on the deformations in the foundation of the  
"Moscow" Hotel in Kiev. Osn., fund. i mekh. grun. 7 no.3:  
25-27 '65. (MIRA 18:6)

VASIL'YEVSKIY, V.Ie. (Kiyev); ZAKHARENKOV, M.M. (Kiyev)

Construction of an apartment house on filled ground. Osn.,  
fund. i mekh. grun. 4 no.3:18-19 '62. (MIRA 15:7)  
(Kiev--Apartment houses)  
(Soil mechanics)

ZAKHARENKOV, M.M. (Kiyov)

Nomogram for determining the coefficient of porosity and the  
volumetric weight of soil. Osn., fund.i mekh.grun. 3 no.6:25  
'61. (MIRA 15:4)

(Soils--Testing)

ZAKHARENKOV, P.

Raise the level of training. Za rul. 17 no.1:7-8 Ja '59.  
(MIRA 12:3)

1. Predsedatel' oblastnogo komiteta Dobrovol'nogo obshchestva sodeystviya armii, aviatsii i flotu.  
(Orenburg Province--Automobile drivers)

ZAKHARENKOV, V.K.

New standard for refractory materials for rotary kilns. TSement  
27 no.6:15-16 H-D '61. (MIRA 15:3)  
(Refractory materials--Standards) (Kilns, Rotary)

IL'INA, N.V., kand.tekhn.nauk; BELYAYEV, A.K., inzh.; ZAKHARENKOV, V.K.,  
inzh.; SKOBLO, L.I., inzh.

Testing refractory concrete on molten glass in large-diameter  
kiln. Tsement 30 no. 2:12-13 Mr-Ap '64. (MIRA 17:5)

1. Vsesoyuznyy gosudarstvennyy nauchno-issledovatel'skiy i  
proyektnyy institut tsementnoy promyshlennosti.

ZAKHARENKO, Ye.; KOKOVIN, V., kand.tekhn.nauk (Leningrad)

Using cement in grouting local materials in Leningrad. Zhil.-kov.  
khoz. 10 no.12:19-20 '60. (MIRA 13:12)

1. Upravlyayushiy trestom "Lendorstroy," Leningrad (for Zakharenkov).  
(Leningrad--Road materials)

ZAKHARENKOVA, G.F. [Zakharenkova, H.F.]

Aquatic vegetation in Lake Rudakovo. Vestsi AN BSSR Ser. biial.  
nav. no.3:105-110 '63 (MIRA 17:7)

SMIRNOVA, V.A.; ZAKHARENKOVA, G.F.

Dynamics of reserve substances in the bark and wood of  
yearling shoots of frost-resistant and frost-sensitive  
plants. Bot.; Iszl. Bal. otd. VBO no. 7:81-90 '65.

(MIRA 18:12)

ZAKHARENKOVA, G.F.

Vegetation of Lake Volos Yuzhnyy. Bot.; issl. Bel. otd. VBO  
no. 7: 184-188 '65. (MIRA 18:12)

DEMENKOVA, P.Ya.; ZAKHARENKOVA, L.N.; KURBATSKAYA, A.P.

Relation between vanadium and nickel on one hand and oil components on the other in the Volga-Ural area. Trudy VNIIGRI no.117:186-212 '58. (MIRA 12:4)

(Volga Valley--Petroleum geology)  
(Ural Mountain region--Petroleum geology)

3(5) PLEN I BOOI EXPLOITATION NOV/1977  
Vsesoyuzny nauchno-issledovatel'skiy geologorazvedochnyy institut.

O predlozheniyakh nefli v karamongol'skoy i permskoy otlozheniyakh Volga-Ural'skoy oblasti; sbornik statey (Origin of Petroleum in the Carboniferous and Permian Sediments of the Volga-Ural Basin) (Series: Akad. Nauk SSSR, Geologiya, Moscow, 1978, 283 p., copies printed. 1,500)

Ed.: E.K. L'vovyy; E.K. M.; G.A. Davyd; Tech. Ed.: I.M. Gumbad'yeva.

NOTE: This book is intended for geologists and geochemists, particularly those interested in questions dealing with the origin, development, and structure of oil deposits.

CONTENTS: This collection of articles deal with the Carboniferous and Permian sediments of the Volga-Ural district and methods of determining possible petroleum source-beds. The lithologic and geochemical characteristics of the sediments are discussed as are the conditions of oil deposition. The author thanks the following geologists working in this sector: A.M. Kabanov, S.P. Yevl, M.F. Kabanov, I.A. Shpil'man, further thanks are extended to Professor M.F. Dvali for his advice and encouragement. References accompany each article.

Origin of Petroleum (Cont.)

Petrova, Yu.M., I.P. Karpova, I.P. Kasatkina. Organic matter in the Upper Paleozoic Beds of the Volga-Ural Region	115
Lotina, A.K., Ye.M. Chikhanava. Certain Characteristics of the Oils in the Volga-Ural Region	151
Dzhenkova, P.Ya., I.M. Zashcharenkova, and A.P. Kurbatkaya. The Relationship Between Petroleum and Nickel and the Components of the oils of the Volga-Ural Region	186
Slonkova, V.I., and M.A. Yezova. The Study of Microflora in the Oil Deposits of the Second Baku	213
Zavatskiy, V.A. Certain Regularities in the Distribution of Oils in the Volga-Ural Region	222
Pomer, V.M. Certain Features of the Development of the Structural-tectonic Pattern in the Middle and the Upper Paleozoic of the Volga-Ural region and the Western Slope of the Urals	234

Card 3/4

Origin of Petroleum (Cont.) NOV/1977  
Maysin, Z.I. The possibility of outlining the oil-bearing fields in a cross-section of the Carboniferous and Permian of the Volga-Ural Region 252

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6-22-59

DEMENKOVA, P.Ya.; ZAKHARENKOVA, L.H.; KURBATSAYA, A.P.

Some data on the distribution of vanadium, nickel, sulfur, and  
nitrogen in different fractions of Paleozoic petroleum from Volga-  
Ural regions. Trudy VNIGRI no.123:59-72 '58. (MIRA 11:12)  
(Volga Valley--Petroleum--Analysis)  
(Ural Mountain region--Petroleum--Analysis)

DEMENKOVA, P.Ya.; ZAKHARENKOVA, L.N.; KUREVSKAYA, A.P.; PAUTOVA, H.M.

Some data on the distribution of vanadium, nickel, and porphyrins  
in petroleum of the Tajik Depression in Central Asia.

Trudy VNIIGRI no.174:168-76 '61. (MIRA 14:12)

(Tajikistan--Petroleum--Analysis)

ZUBAREV, S.V.; ZAKHARENKOVA, V.I.; SOBOLEV, A.S.; KALUZHSKAYA, I.N.

Kinetics of phenol chlorination. Khim. prom. 41 no. 3:569-  
570 Ag '65. (MIRA 18:9)

"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001963510016-9

APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001963510016-9"

ZAKHAREVICH, A., komandir podrazdeleniya.

Notes on flying skill. Part 2: Training plane commanders for  
flights under difficult meteorological conditions. Grazhd, av.  
14 no.1:8-9 Ja '57. (MLRA 10:4)  
(Airplanes---Piloting)

BRAZHEICHENKO, Nikolay Arsen'yevich; KAN, Veniamin Lipmanovich;  
MINTSBERG, Benjamin L'vovich; MOROZOV, Valentin Ivanovich;  
BUTENIN, N.V., doktor tekhn. nauk, prof., retsenzent;  
NIKITIN, N.N., kand. fiz.-mat. nauk, retsenzent; ZAKHAREVICH,  
A.F., nauchnyy red.; SMIRNOV, Yu.I., red.; TSAL, R.K., tekhn.  
red.

[Problems on theoretical mechanics] Sbornik zadach po teoreti-  
cheskoi mekhanike. Leningrad, Sudpromgiz, 1962. 559 p.

(MIRA 16:1.)

(Mechanics, Analytic--Problems, exercises, etc.)

L 47468-66 EWT(d)/EWT(1)/EWP(v)/T-2/EWP(k)/EWP(h)/EWP(1) WW

ACC NR: AP6029067

SOURCE CODE: UR/0413/66/000/014/0122/0123

INVENTOR: Dobrolyubov, S. A.; Kuklik, L. F.; Zakharevich, A. T.

51  
B

ORG: none

TITLE: Three way control valve. <sup>21</sup> Class 46, No. 184066 [announced by the Smolensk branch of Scientific Research Institute of Heat and Power Instrument Construction (Smolenskiy Filial Nauchno-issledovatel'skogo instituta teploenergeticheskogo priboro-atroyeniya)]

SOURCE: Izobret prom obraz tov zn, no. 14, 1966, 122-123

TOPIC TAGS: control valve, three way control valve, flow distribution, three way valve, valve

ABSTRACT: The proposed three-way control valve <sup>14</sup> for the proportional distribution of a flow or for mixing two flows with different temperature gradients has a locking element consisting of four sealing edges, interacting with the corresponding fitting bands of the casing seats (see Fig. 1). In order to compensate for the static and dynamic unbalance of the locking element, the latter is made in a form of a hollow cylinder with two bands, joined together by the contour profile of the sealing edges: openings for the main

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UDC: 621.646.23: 621.43

L 47468-66

ACC NR: AP6029067

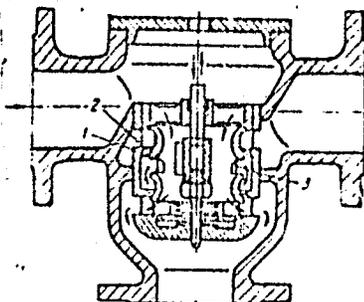


Fig. 1. Three way valve  
1 -  
1 - Sealing edges; 2 - fitting  
band; 3 - openings.

supply of the flow to be separated or the drain for the mixed flows are located between the sealing edges. Orig. art has: 1 figure. [AV]

SUB CODE: 13/ SUBM DATE: 30Jan65/

Card 2/2 mjc

SMIRNOVA, V.A.; ZAKHARENKOVA, G.F. [Zakharenkava, H.F.]

Dynamics of reserve substances in the annual shoots of woody plants. Vestsi AN BSSR. Ser. biol. nav. no.4:12-18 '63.  
(MIFA 17:8)

ZHURAVLEV, P.A., dotsent; ZAKHAREVICH, A.P., dotsent

Dynamic stresses in hoisting cables. Izv. vys. ucheb. zav.; gor.  
zhur. 6 no.3:121-128 '63. (MIRA 16:10)

1. Leningradskiy ordena Lenina i ordena Trudovogo Krasnogo Znameni  
gornyy institut imeni G.V.Plekhanova. Rekomendovana kafedroy  
gornoy mekhaniki.

ZHURAVLEV, P.A., dotsent; ZAKHAROVICH, A.F., dotsent.

Numerical evaluation of maximum tension in mine hoisting ropes  
under regular conditions of hoisting. Izv.vys.ucheb.zav.;  
gor.shur. no.10:113-118 '59. (MIRA 13:5)

1. Leningradskiy gornyy institut.  
(Mine hoisting)

ZHURAVIEV, P.A.; ZAKHAREVICH, A.F.

Stress distribution in a massif of rock with a horizontal working  
of circular cross section. Zap. LGI 36 no.3:101-105 '53.  
(MIRA 16:5)

(Geology) (Strains and stresses)

SOV/124-57-5-5873

Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 5, p 121 (USSR)

AUTHOR: Zakharevich, A. F.

TITLE: The Bending of a Homogeneous Layer Under the Action of Its Own Weight (Izhib odnorodnogo sloya pod deystviyem sobstvennogo vesa)

PERIODICAL: Zap. Leningr. gorn. in-ta, 1956, Vol 33, pp 62-89

ABSTRACT: The author examines the bending of a prismatic rectangular-section layer under the action of its own weight; two opposite edges of the layer are assumed to be restrained, the remaining two edges free. The boundary conditions along the free edges are to be fulfilled exactly, those along the restrained edges only approximately. The classical polynomial solutions of the planar problem makes it possible to fulfill the conditions of restraint at only one point along the outer edge; the addition of homogeneous solutions (such as those of Prokopov, V. K., Inzhenernyy sb., 1952, Vol 11, pp 150-160) makes it possible to increase the number of restrained points. Results are given of calculations made in the case of a square-section layer restrained alternately in eight different ways (i. e., at one, three,

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